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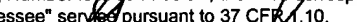
Approved for use through xx/xx/xx, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

ENCLOSURES (check all that apply)	
<input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate)	<input type="checkbox"/> Issue Fee Transmittal
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<input checked="" type="checkbox"/> Return Receipt Postcard	<input type="checkbox"/> Formal Drawing(s): [] Sheet(s) of Figure(s) []
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<input type="checkbox"/> Assignment & Recordation Cover Sheet	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Declaration	<input type="checkbox"/> Certified Copy of Priority Document(s)
<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Information Disclosure Statement & PTO-1449	<input type="checkbox"/> _____
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<input type="checkbox"/> Request for Corrected Filing Receipt	<input type="checkbox"/> _____
<input type="checkbox"/> Request for Correction of Recorded Assignment	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Amendment/Response: 11 Page(s)	<input type="checkbox"/> _____
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REMARKS:	

REMARKS:

SIGNATURE OF ATTORNEY OR AGENT

CERTIFICATE OF MAILING			
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Signature:			
Typed or Printed Name:		Greg T. Sueoka	Dated: December 16, 1999



PTO/SB/17 (6-95)(modified)
Approved for use through 11/30/96, OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0002/PTO(modified) Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	Complete if Known	
FEE TRANSMITTAL TOTAL AMOUNT OF PAYMENT Subtotal (1) + Subtotal (2) + Subtotal (3) = (\$110.00)		Application Number	09/083,769
		Filing Date	May 22, 1998
		First Named Inventor	Gerard McGoogan
		Group Art Unit	2836
		Examiner Name	Ronald W. Leja
		Attorney Docket Number	3454 US

METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																											
1. The Commissioner is hereby authorized to: <input type="checkbox"/> Charge the indicated fees to the below mentioned deposit account. <input checked="" type="checkbox"/> Charge any additional fee required under 37 CFR 1.16 - 1.21 or credit any over payments to the below mentioned deposit account. ¹ <input type="checkbox"/> Charge the Issue Fee set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) to the below mentioned deposit account. Deposit Account Number: 19-2555 Deposit Account Name: FENWICK & WEST LLP A Duplicate Copy of this authorization is attached 2. <input checked="" type="checkbox"/> Payment Enclosed: [X] Check [] Other		3. ADDITIONAL FEES <table border="1"><thead><tr><th>Large Entity Fee Code/Fee</th><th>Small Entity Fee Code/Fee</th><th>Fee Description</th><th>Fee Due</th></tr></thead><tbody><tr><td>105/\$130</td><td>205/\$65</td><td>Surcharge - late filing fee or oath</td><td><input type="text"/></td></tr><tr><td>127/\$50</td><td>227/\$25</td><td>Surcharge-late provisional filing fee or cover sheet</td><td><input type="text"/></td></tr><tr><td>147/\$2,520</td><td>147/\$2,520</td><td>For filing a request for reexamination</td><td><input type="text"/></td></tr><tr><td>115/\$110</td><td>215/\$55</td><td>Extension for response within first month¹</td><td>110</td></tr><tr><td>116/\$380</td><td>216/\$190</td><td>Extension for response within second month¹</td><td><input type="text"/></td></tr><tr><td>117/\$870</td><td>217/\$435</td><td>Extension for response within third month¹</td><td><input type="text"/></td></tr><tr><td>118/\$1,360</td><td>218/\$680</td><td>Extension for response within fourth month¹</td><td><input type="text"/></td></tr><tr><td>128/\$1,850</td><td>228/\$925</td><td>Extension for response within fifth month¹</td><td><input type="text"/></td></tr><tr><td>119/\$300</td><td>219/\$150</td><td>Notice of Appeal</td><td><input type="text"/></td></tr><tr><td>141/\$1,210</td><td>241/\$605</td><td>Petition to revive unintentionally abandoned Application</td><td><input type="text"/></td></tr><tr><td>142/\$1,210</td><td>242/\$605</td><td>Utility Issue Fee (Or Reissue)</td><td><input type="text"/></td></tr><tr><td>143/\$430</td><td>243/\$215</td><td>Design Issue Fee</td><td><input type="text"/></td></tr><tr><td>122/\$130</td><td>122/\$130</td><td>Petitions to the Commissioner</td><td><input type="text"/></td></tr><tr><td>123/\$50</td><td>123/\$50</td><td>Petitions related to provisional applications</td><td><input type="text"/></td></tr><tr><td>126/\$240</td><td>126/\$240</td><td>Submission of Information Disclosure Statement</td><td><input type="text"/></td></tr><tr><td>581/\$40</td><td>581/\$40</td><td>Recording each patent assignment per property (times number of properties)</td><td><input type="text"/></td></tr><tr><td>146/\$760</td><td>246/\$380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td><input type="text"/></td></tr><tr><td>149/\$760</td><td>249/\$380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td><input type="text"/></td></tr><tr><td colspan="2">Other fee (specify):</td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td colspan="2">Other fee (specify):</td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td colspan="3">SUBTOTAL (3)</td><td>(\$110)</td></tr></tbody></table>				Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due	105/\$130	205/\$65	Surcharge - late filing fee or oath	<input type="text"/>	127/\$50	227/\$25	Surcharge-late provisional filing fee or cover sheet	<input type="text"/>	147/\$2,520	147/\$2,520	For filing a request for reexamination	<input type="text"/>	115/\$110	215/\$55	Extension for response within first month ¹	110	116/\$380	216/\$190	Extension for response within second month ¹	<input type="text"/>	117/\$870	217/\$435	Extension for response within third month ¹	<input type="text"/>	118/\$1,360	218/\$680	Extension for response within fourth month ¹	<input type="text"/>	128/\$1,850	228/\$925	Extension for response within fifth month ¹	<input type="text"/>	119/\$300	219/\$150	Notice of Appeal	<input type="text"/>	141/\$1,210	241/\$605	Petition to revive unintentionally abandoned Application	<input type="text"/>	142/\$1,210	242/\$605	Utility Issue Fee (Or Reissue)	<input type="text"/>	143/\$430	243/\$215	Design Issue Fee	<input type="text"/>	122/\$130	122/\$130	Petitions to the Commissioner	<input type="text"/>	123/\$50	123/\$50	Petitions related to provisional applications	<input type="text"/>	126/\$240	126/\$240	Submission of Information Disclosure Statement	<input type="text"/>	581/\$40	581/\$40	Recording each patent assignment per property (times number of properties)	<input type="text"/>	146/\$760	246/\$380	Filing a submission after final rejection (37 CFR 1.129(a))	<input type="text"/>	149/\$760	249/\$380	For each additional invention to be examined (37 CFR 1.129(b))	<input type="text"/>	Other fee (specify):		<input type="text"/>	<input type="text"/>	Other fee (specify):		<input type="text"/>	<input type="text"/>	SUBTOTAL (3)			(\$110)
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2. CLAIMS <table border="1"><thead><tr><th>Large Entity Fee Code/Fee</th><th>Small Entity Fee Code/Fee</th><th>Fee Description</th></tr></thead><tbody><tr><td>103/\$18</td><td>203/\$9</td><td>Claims in excess of 20</td></tr><tr><td>102/\$78</td><td>202/\$39</td><td>Independent claims in excess of 3</td></tr><tr><td>104/\$260</td><td>204/\$130</td><td>Multiple dependent claim</td></tr><tr><td>109/\$78</td><td>209/\$39</td><td>Reissue independent claims over original patent</td></tr><tr><td>110/\$18</td><td>210/\$9</td><td>Reissue claims in excess of 20 and over original patent</td></tr></tbody></table>		Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	103/\$18	203/\$9	Claims in excess of 20	102/\$78	202/\$39	Independent claims in excess of 3	104/\$260	204/\$130	Multiple dependent claim	109/\$78	209/\$39	Reissue independent claims over original patent	110/\$18	210/\$9	Reissue claims in excess of 20 and over original patent																																																																										
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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Greg T. Sueoka	Reg. Number	33,800
Signature		Date	December 16, 1999

¹ Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby



IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

APPLICANT: Gerard McGoogan
SERIAL NO.: 09/083,769 ✓
FILING DATE: May 22, 1998 ✓
TITLE: Improvements In Intrinsically Safe Circuits ✓
EXAMINER: Ronald W. Leja
GROUP ART UNIT: 2836 ✓
ATTY. DKT. NO.: 3454

#8/BW
Caterpillar
Time
R. Brader

Entered
J. Macmillan
2/11/00

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Dated: 1/1/1999 By: Greg T. Sueoka, Reg. No.: 33,800

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WASHINGTON, D.C. 20231

AMENDMENT B

Sir:

Responsive to the official action mailed August 16, 1999, please amend the above-referenced application as set forth below.

1/12/00
JL

DO NOT ENTER

12/22/1999 SLUANG1 00000129 09083769

01 FC:115

RWL

110.00 OP

B